system

be quiet!

GERMANY'S
#1
IN POWER SUPPLIES
SINCE 2006*

# SYSTEM POWER 7

BETTER, QUIETER, MORE RELIABLE

**700W • 600W • 500W • 450W • 400W • 350W • 300W**

## IDEAL FOR

Best price to performance system builds
Silent office or home PCs
Entry to mid-level gaming systems
Value-conscious and quality-oriented SIs

## HIGHLIGHTS

96% of power available for 12V
Meets current and future standards
Highest efficiency in the class
Market leader in quiet solutions

**Better, Quieter, More Reliable**

Your customers deserve more, and you want the best price-for-performance available - so be quiet! designed the new System Power 7. Offering the best possible combination of power, quietness, features and efficiency, System Power 7 lets you build cost-effective systems with superior performance - a key differentiator in these days of identical commodities.

New and improved features »

- 120mm be quiet! fan reduces system noise
- Certified 80PLUS Bronze / Silver efficiency (up to 90%)
- Stronger +12V rails support bigger system builds
- Supports Multi-GPU Systems based on ATI or nVidia graphic cards (400-700W)
- Sleeved cable lengths for improved cooling and more attractive appearance (450-700W)
- Meets Intel C6, ErP 2013 and Energy Star 5
- Power consumption in stand by below 0.25W
- Safe operation in ambients of up to 40°C
- Full suite of top safety protections defends against over-currents, over- and under-voltages, short circuits, overheating and overloads, thus safeguarding valuable components
- Follows RoHS, WEEE and REACH regulations
- German product conception, design and quality control
- Three year warranty

System Power 7 »

**An excellent choice for stability, performance and superior quiet. From the #1 manufacturer of PSUs in Germany for six years running.**

80 PLUS BRONZE

80 PLUS SILVER

*According to the yearly PC Games Hardware's „Manufacturer of the year" election (2006-2011) and market data from GfK (2007-2012)

be quiet!

# SYSTEM POWER 7

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## Technical Data »

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| IN GENERAL | Continuous power (W) | 700W | 600W | 500W | 450W | 400W | 350W | 300W |
| | Model | BN146 | BN145 | BN144 | BN143 | BN142 | BN141 | BN140 |
| | EAN Code | 4260052183076 | 4260052183052 | 4260052183038 | 4260052183014 | 4260052182994 | 4260052182970 | 4260052182956 |
| | Voltage / Frequency | 100–240Vac 50–60Hz | 100–240Vac 50–60Hz | 100–240Vac 50–60Hz | 100–240Vac 50–60Hz | 100–240Vac 50–60Hz | 100–240Vac 50–60Hz | 100–240Vac 50–60Hz |
| | ATX 12V 2.31 / EPS 12V 2.92 | ✓ / ✓ | ✓ / ✓ | ✓ / - | ✓ / - | ✓ / - | ✓ / - | ✓ / - |
| | Dimensions (LxWxH) | 150 x 140 x 86 | 150 x 140 x 86 | 150 x 140 x 86 | 150 x 140 x 86 | 150 x 140 x 86 | 150 x 140 x 86 | 150 x 140 x 86 |
| | be quiet! fan (mm) | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | Noise level at 20 / 50 / 100% load | 15.4 / 15.4 / 32.5 | 15.7 / 15.7 / 26.8 | 13.9 / 13.9 / 24.7 | 13.9 / 13.9 / 17.7 | 15.5 / 16.0 / 25.2 | 14.5 / 15.1 / 23.1 | 13.9 / 14.7 / 20.7 |
| | Efficiency % (at 230V) | up to 90% | up to 90% | up to 90% | up to 90% | up to 87% | up to 87% | up to 87% |
| | 12V Rails | 4 | 4 | 2 | 2 | 2 | 2 | 2 |
| | Active PFC | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | OCP, OVP, UVP, SCP, OPP, OTP | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Certifications | 80Plus Silver nVidia SLI AMD CrossFireX | 80Plus Silver AMD CrossFireX | 80Plus Silver | 80Plus Silver | 80Plus Bronze | 80Plus Bronze | 80Plus Bronze |
| | Energy Star 5.0 compatible | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | ErP Lot 6 ready | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Lifetime of fan at 25°C (h) | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 | 100.000 |
| CABLES | No. of cables | 8 | 7 | 5 | 5 | 5 | 5 | 4 |
| | Maximum cable length (cm) | 110 | 110 | 110 | 110 | 110 | 100 | 100 |
| | Length of ATX-connection cable (cm) | 55 | 55 | 55 | 55 | 50 | 45 | 45 |
| | Sleeved cables | ✓ | ✓ | ✓ | ✓ | - | - | - |
| CONNECTORS | ATX-Mainboard (20+4-pin) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | PCI-Express (6-pin/6+2-pin) | 4 | 2 | 2 | 2 | 2 | 1 | - |
| | P8-/P4-connector | 1x P4+4 | 1x P4+4 | 1x P4+4 | 1x P4+4 | 1x P4+4 | 1x P4+4 | 1x P4+4 |
| | S-ATA (5-pin) | 9 | 9 | 6 | 6 | 6 | 4 | 4 |
| | IDE (4-pin) | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| | FDD (Floppy) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

## Output Data »

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SYSTEM POWER 7 300W | AC Input | 100–240Vac 50–60Hz 4-2A | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | –12V | 5VSB | |
| | Max. Current | 21A | 15A | 18A | 18A | 0.3A | 2.5A | |
| | | | | 24A | | | | |
| | Max. Combined Power | 103W | | 288W | | 3.6W | 12.5W | |
| | | 300W | | | | | | |
| SYSTEM POWER 7 350W | AC Input | 100–240Vac 50–60Hz 5-2.5A | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | –12V | 5VSB | |
| | Max. Current | 21A | 15A | 18A | 18A | 0.3A | 2.5A | |
| | | | | 28A | | | | |
| | Max. Combined Power | 110W | | 336W | | 3.6W | 12.5W | |
| | | 350W | | | | | | |
| SYSTEM POWER 7 400W | AC Input | 100–240Vac 50–60Hz 6-3A | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | –12V | 5VSB | |
| | Max. Current | 24A | 15A | 24A | 20A | 0.3A | 3A | |
| | | | | 32A | | | | |
| | Max. Combined Power | 120W | | 384W | | 3.6W | 15W | |
| | | 400W | | | | | | |
| SYSTEM POWER 7 450W | AC Input | 100–240Vac 50–60Hz 7-3.5A | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | –12V | 5VSB | |
| | Max. Current | 24A | 15A | 26A | 20A | 0.3A | 3A | |
| | | | | 36A | | | | |
| | Max. Combined Power | 120W | | 432W | | 3.6W | 15W | |
| | | 450W | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SYSTEM POWER 7 500W | AC Input | 100–240Vac 50–60Hz 7-3.5A | | | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | –12V | 5VSB | | | |
| | Max. Current | 24A | 15A | 28A | 20A | 0.3A | 3A | | | |
| | | | | 40A | | | | | | |
| | Max. Combined Power | 120W | | 480W | | 3.6W | 15W | | | |
| | | 500W | | | | | | | | |
| SYSTEM POWER 7 600W | AC Input | 100–240Vac 50–60Hz 8–4A | | | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | 12V3 | 12V4 | –12V | 5VSB | |
| | Max. Current | 25A | 18A | 18A | 18A | 18A | 18A | 0.3A | 3A | |
| | | | | 48A | | | | | | |
| | Max. Combined Power | 140W | | 576W | | | | 3.6W | 15W | |
| | | 600W | | | | | | | | |
| SYSTEM POWER 7 700W | AC Input | 100–240Vac 50–60Hz 9–4.5A | | | | | | | | |
| | DC Output | 3.3V | 5V | 12V1 | 12V2 | 12V3 | 12V4 | –12V | 5VSB | |
| | Max. Current | 25A | 20A | 18A | 18A | 18A | 18A | 0.3A | 3A | |
| | | | | 66A | | | | | | |
| | Max. Combined Power | 150W | | 672W | | | | 3.6W | 15W | |
| | | 700W | | | | | | | | |

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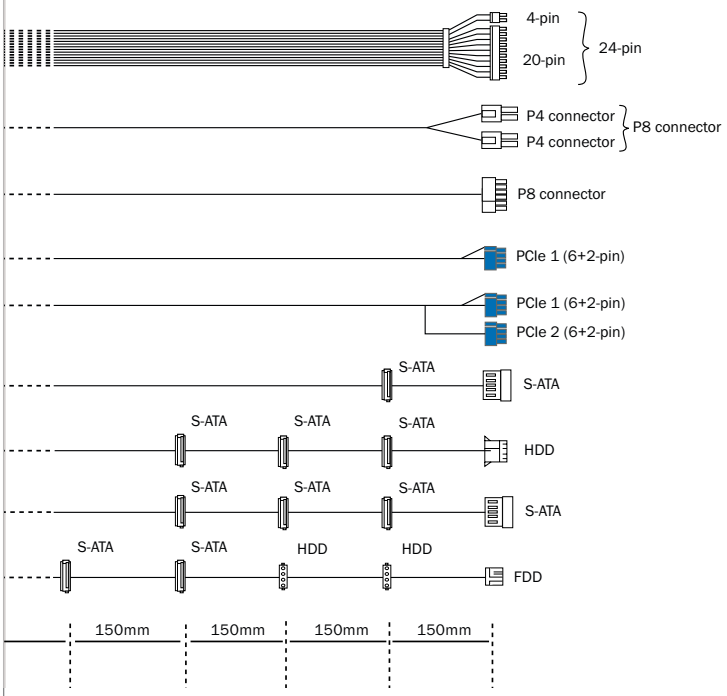
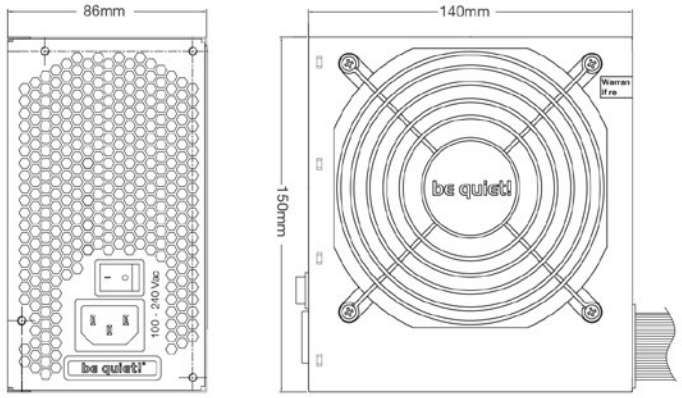
## Cablemanagement »




| 300W | 350W | 400W | 500W | 600W | 700W |
|---|---|---|---|---|---|
| 450mm | 450mm | 500mm | 550mm | 550mm | 550mm |
| 450mm | 450mm | 550mm | 600mm | 600mm | 600mm |
| x | x | x | x | x | 600mm |
| x | 550mm | x | x | x | x |
| x | x | 500mm | 500mm | 500mm | 500mm 2x |
| 400mm* | 400mm* | x | x | x | x |
| x | x | x | x | 500mm* | 500mm* |
| x | x | 500mm* | 500mm* | 500mm* | 500mm* |
| 400mm* | 400mm* | 500mm* | 500mm* | 500mm* | 500mm* |

*cable length to first connector

## Dimensions »




## Certifications »

Intertek

## Contact »

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